



The IDeAI Webinar Series - Introduction

Ralf-Dieter Hilgers

IDeAI-Coordinator
Department of Medical Statistics, RWTH Aachen University

IDeAI Webinar Series, 2016, Oct 4th



FP7 HEALTH 2013 - 602552





Carl-Frederik Burman



Holger Dette



Ralf-Dieter Hilgers



Malgorzata Bogdan



Mats O. Karlsson



Stephen Senn



Franz König



Geert Molenberghs



France Mentré



Christoph Male



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Ralf-Dieter Hilgers

Head of the Department of Medical Statistics at RWTH Aachen University
Coordinator of the IDeAI Project



- studied mathematics at RWTH Aachen University
- got my PhD at the statistical faculty of the University of Dortmund
- since 2001 head of the Department of Medical Statistics (IMSA) at the Medical Faculty, RWTH Aachen University
- research interest is in optimal design of experiments, randomization procedure and clinical trials
- expertise in teaching, consultation etc.



Do you have any Comment?



A screenshot of the IDEAL software interface. The window title is "IDEAL - Integrated DEsign an AnaLysis (Zusammenarbeit)". The interface includes a top menu bar with "Meeting", "Layouts", "Pods", "Audio", and "Help". The main area is split into two panes: "Freigabe" on the left and "Kamera und Ton" on the right. The "Freigabe" pane contains a "Share My S" button and a graphic of a laptop and documents. The "Kamera und Ton" pane contains a "Start My Webcam" button. A participant list on the right shows "Teilnehmerliste (1)" with "Hosts (1)" including "Ralf-Dieter Hilgers". Below the list is a "Chat (Everyone)" section with an input field and a "Send" button. A blue callout box with the text "Please enter your comment / question here" has an arrow pointing to the chat input field.



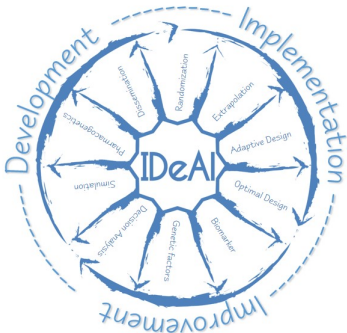
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What is this Webinar about?



- Present an overview of the IDeAI project



- give an overview on the webinar series



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There is a pressing need to integrate a broad range of innovative methodologies improving clinical trials in the setting of small sample population groups (SPG).

The objective of this research is to produce methods of general applicability irrespective of indication by Integrated DDesign and Analysis of clinical trials in SPG (IDeAI) through a multidisciplinary closely collaborating consortium of researchers from European universities, research institutes and industry.



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New methodologies for clinical trials for small population groups FP7-HEALTH-2013-INNOVATION-1.

Objective develop new or improved statistical design methodologies for clinical trials aiming at the efficient assessment of the safety and/or efficacy of a treatment for small population groups in particular for rare diseases or personalised (stratified or individualised) medicine.

Multidisciplinary Framework involve all relevant stakeholders (including industry and patient advocacy groups) as appropriate. Ideally, results would lead to improvement of clinical trial guidelines. Collaboration with relevant organisations outside Europe is welcomed.

Expected Impact Cost efficient clinical trials deriving reliable results from trials in small population groups.





Integrated DESign and AnaLYsis of small population group trials

aims to refine the statistical methodology for clinical trials in small population groups by strictly following the concept of an improved integration of design, conduct and analysis of clinical trials from various perspectives.





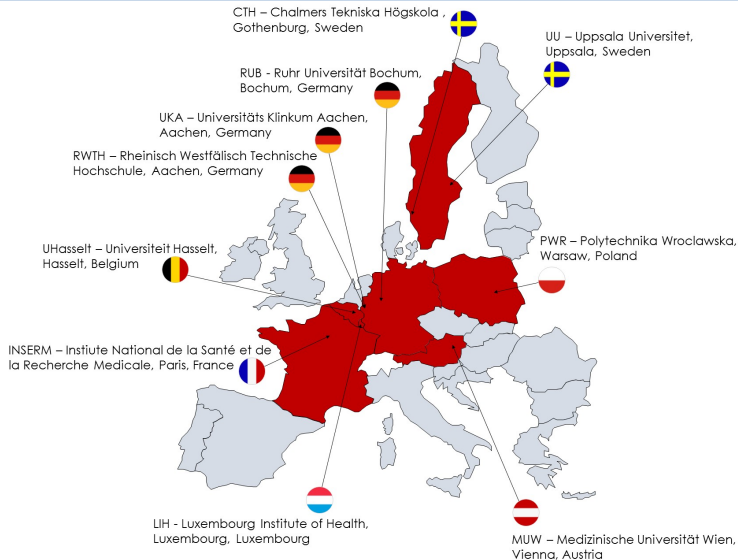
IDeAI Meeting in Paris, November 2014



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Partner of the IDeAI Project



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- 1 **WP 2:** Assessment of randomisation procedures and randomisation based tests in SPG
- 2 **WP 3:** Extrapolating dose response information to SPG
- 3 **WP 4:** Adaptive design studies in SPG
- 4 **WP 5:** Optimal design in mixed models to analyse studies in SPG
- 5 **WP 6:** Design of pharmacogenetic SPG trials, incl. cross-over trials, n-of-1 trials and enrichment trials
- 6 **WP 7:** Simulation of clinical trials in SPG
- 7 **WP 8:** Genetic factors influencing the response to the therapy in SPG
- 8 **WP 9:** Decision analysis in SPG
- 9 **WP 10:** Biomarker surrogate endpoints in SPG
- 10 **WP 11:** Dissemination



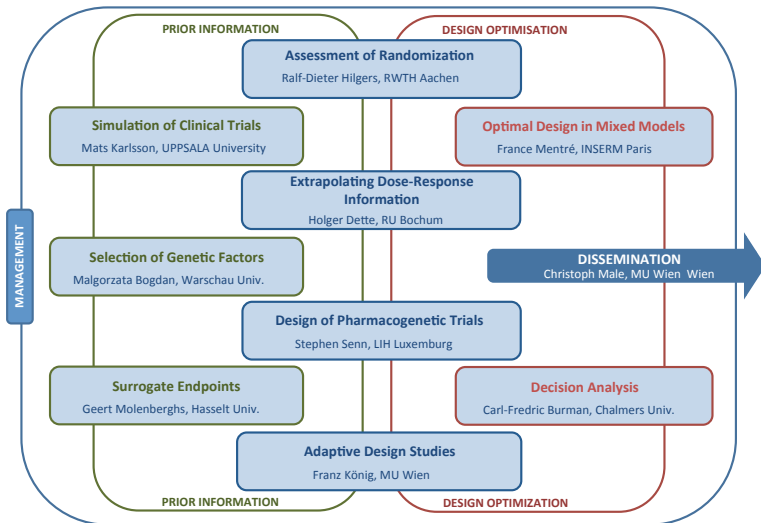


No	Name	Country
1	Segolene Aymé	(F)
2	Rosemary Bailey	(UK)
3	Paolo Baroldi	(USA)
4	Frank Bretz	(CH)
5	Tomasz Burzykowski	(USA)
6	Martin Forster	(UK)
7	Ralf Herold	(UK)
8	Chris Jennison	(UK)

No	Name	Country
9	Steven A. Julious	(GB)
10	Gerard Nguyen	(F)
11	Paolo Pertile	(I)
12	Gérard Pons	(F)
13	William F. Rosenberger	(USA)
14	Chiara Sabati	(USA)
14	Günther Schmalzing	(D)
14	Gernot Wassmer	(D)



Structure of the IDeAI Project



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EMA interest	IDeAl - Workpackages
Extrapolation Standards of evidence	WP3: Extrapolating Dose-Response Information (<i>Holger Dette</i>) WP 4: Adaptive Design Studies (<i>Franz König</i>)
Data-driven decision-making	WP 9: Decision Analysis (<i>Carl Fredrik Burman</i>)
Understanding value of research	WP 6: Design of Pharmacogenetic Trials (<i>Stephen Senn</i>)
Multidisciplinary simulations	WP 7: Simulation of Clinical Trials (<i>Mats Karlsson</i>) WP 5: Optimal Design in Mixed Models (<i>France Mentré</i>)
Effects, bias randomisation	WP 10: Surrogate Endpoints (<i>Geert Molenberghs</i>) WP 2: Assessment of Randomization (<i>Ralf-Dieter Hilgers</i>)

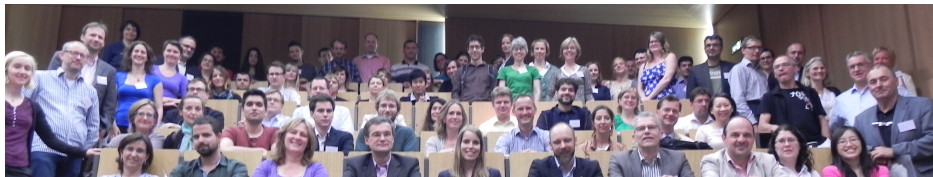






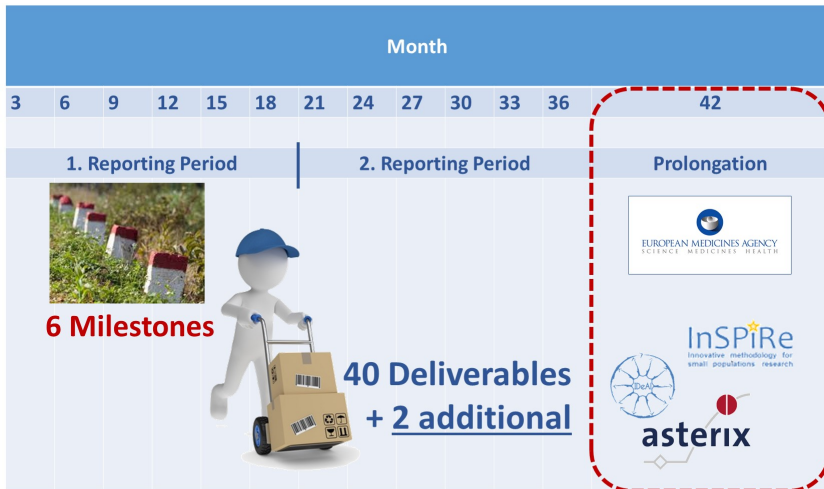
- 35 publications in peer reviewed journals (actual state)
- presentations at various conferences (among other at the FDA)
- workshops at different conferences
- organized conferences and sessions at conferences
- released various free available software programmes
- input to regulatory guidelines
- study stays abroad program
- some input to design and analysis of rare disease clinical trials





- close contact to Kit Roes (asterix) and Nigel Stallard (InSPiRe)
- IRDiRC task force on small population clinical trials
- EMA (e.g, EAB, joint meeting next year)
- DIA small populations working group







Aim of the IDeAI Series of Webinars

- inform stakeholders about the new IDEAL methodology
- the main achievements of each WP 2 to WP 11 will be presented by the respective work package leader
- the last webinar is a joint presentation of all work packages with the main outcomes of the whole project





Organisation of the Lectures IDeAI Series of Webinars

- last 1 hour 17:00 to 18:00 CEST
- This webinar series is freely open to anyone.
- The slides of each webinar are published at the public webpage afterwards (www.ideal.rwth-aachen.de).
- Do not hesitate to contact us.





Date	Presenter	Title
4. Oct	Ralf-Dieter Hilgers	The IDeAI webinar series - introduction
6. Oct	Ralf-Dieter Hilgers	Selection of a randomization procedure Does it matter? How it works!
11. Oct	Mats Karlsson	A sampling importance resampling procedure for estimating parameter uncertainty
13. Oct	Holger Dette	Statistical inference for comparing small population groups
18. Oct	Geert Molenberghs	Pseudo-likelihood and split-sample methods in small and very large studies (FP7-IDEAL & ExaScience)





Date	Presenter	Title
20. Oct	Franz König	Adaptive level of evidence
25. Oct	Stephen Senn	A little bit me, a little bit you: N of 1 trials, random effects and shrinkage estimators
27. Oct	France Mentré	Using Hamiltonian Monte Carlo to design clinical trials with longitudinal data
10. Nov	Malgorzata Bogdan	Identifying genetic factors influencing important patient's characteristics
15. Nov	Carl-Fredrik Burman	Optimal decisions and stakeholder interactions
17. Nov	Christoph Male Franz König	Dissemination





- VISIT THE **IDeAI WEBPAGE**
 - ▶ <http://www.ideal.rwth-aachen.de>
- Get **LinkedIn** IDEAL ? FP7 Project
 - ▶ <http://www.linkedin.com/groups/IDEAL-FP7-Project-6556030>
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Enjoy the Webinar Series



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